

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addease COMMISSIONER FOR PATENTS PO Box 1430 Alexandra, Virginia 22313-1450 www.webjo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,925	06/24/2003	Basil Treppa	059864.00842	4336
32294 7590 01/05/2009 SQUIRE, SANDERS & DEMPSEY L.L.P. 8000 TOWERS CRESCENT DRIVE			EXAMINER	
			HIGA, BRENDAN Y	
14TH FLOOR VIENNA, VA 22182-6212		ART UNIT	PAPER NUMBER	
,			2453	
			MAIL DATE	DELIVERY MODE
			01/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/603.925 TREPPA ET AL. Office Action Summary Examiner Art Unit BRENDAN Y. HIGA 2453 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 14 October 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9.11-20.22-25 and 27-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-9, 11-20, 22-25, 27-34 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

information Disclosure Statement(s) (PTO/S5/06)
Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

This Office action is in response to Applicant's amendment and request for reconsideration filed on October 14, 2008.

Claims 1-9, 11-20, 22-25 and 27-34 remain pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9, 11-20, 22-25, 27-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruck et al. (US 6691165) ("Bruck"), in further view of Sato (US 7,277,935) ("Sato"), in further view of McLaughlin et al. (US 2002/0165929) ("McLauhglin").

As per claim 1, Bruck teaches a system comprising: a network interface configured to communicate with nodes in a cluster (Fig. 6, ref. 614); a configuration subsystem coupled to a remote management broker (read as the single-point, see above, col. 3, lines 64-67), wherein the remote management broker is configured to distribute information between the nodes in the cluster (see col. 3, lines 45-55, 64-67).

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and col. 28, lines 2-16); a processor configured to perform actions, including: access the cluster from a single-point (single-point, see col. 3, lines 64-67); obtain information relating to at least two devices within the cluster (see Fig. 12 and col. 21, lines 55-60, wherein remote management console monitors multiple server computers from a single interface); present the information to a user (see col. 3, lines 64-67); and determine network management (NM) operations to perform to the cluster (col. 21, line 66-col. 22, lines 13); perform the determined NM operations (col. 21, line 66-col. 22, lines 13);

Bruck does not expressly teach determining whether the network management operations on the cluster, including said at least two devices, were applied correctly, and when the network management operations were not applied correctly, the processor is configured to roll back to a successful configuration.

However, in the same art of network management and configuring, Sato teaches, a management system for configuring network devices (see abstract and Fig. 13A-13B), wherein, after configuration changes are made to the network device, a determination is made as to whether a network device has failed, whereby a network management device (see Fig. 13) then transmits original configuration information to restore the network device to a prior configuration (see col. 16, lines 10-17).

One of skill in the art would have been motivated to combine the teachings of Bruck with the teachings of Sato, for determining if network management operations on at least two devices, were applied correctly, and if not, rolling back to a successful configuration, in order to allow Bruck's system to recover from an error state.

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Furthermore, Bruck does not expressly teach applying a configuration lock that is intended to prevent other applications from performing network management operations on the at least two devices within a cluster.

However, in the same art of server cluster management, McLaughlin teaches a system for performing network maintenance on a plurality of network resources within a cluster (see Fig. 1 and abstract). The system further allows for the locking of the network resources by a client while the network maintenance operations are being performed (see ¶0136-¶0144).

One of ordinary skill in the art would have been motivated to apply the teachings of Bruck with the teachings of McLaughlin for applying a configuration lock on the at least two devices in the cluster. The motivation for doing so would have been to prevent other applications from interfering with the network management operations at the two network devices (see McLaughlin, ¶0136-¶0144).

As per claim 2, Bruck further teaches the processor is configured to provide a command line interface configured to access the cluster (see col. 4, lines 1-4)

As per claim 3, Bruck further teaches the processor is configured to provide a graphical user interface that is configured to access the cluster (see col. 4, lines 1-4).

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As per claim 4, Bruck further teaches wherein the processor is configured to aggregate data relating to the devices within the cluster (see Fig. 12 and 13, read as an aggregate of data relating to devices within the cluster).

As per claim 5, Bruck further teaches a secure transport configured to transport messages (see Secure Socket Layer, col. 27, lines 55-59); a remote management brocker server (see, Fig. 7, ref. 1703 and single-point, col. 3, lines 64-67) coupled to the secure transport (col. 27, lines 55-59); and a Remote Management Brick client coupled (see controller, i.e. internet browser application, Fig. 17, ref. 1702) to the secure transport (col. 27, lines 55-59).

As per claim 6, Bruck further teaches wherein the Remote Management Broker is further configured to collect attributes from the Configuration Subsystem (see col. 3, lines 45-55, read as collecting management information from cluster servers).

As per claim 7, Bruck further teaches wherein the messages include a header that is configured to authenticate the messages ("state sharing information messages", see col. 10, lines 9-18, including a "membership field", col. 10, lines 53-64).

As per claim 8, Bruck further teaches wherein a magic field that identifies one or more of the messages as a remote management broker message (see "Signal Type", col. 10, lines 19-38, which identifies the type of message read as a "magic field").

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Furthermore, although Bruck teaches using the SSL protocol in the system (see Secure Socket Layer, col. 27, lines 55-59), as best understood, it is not necessarily the case that SSL protocol is being used to distribute the "state sharing information messages" (see col. 10, lines 9-18, read as "the messages") throughout the cluster network. Thus, it is not necessarily the case that the state sharing information message header includes a message authentication code. However, the examiner takes official notice of this limitation. The SSL protocol was well known in the art at the time of the invention, (see Hickman, Kipp. "The SSL protocol", November 29, 1994), which includes a Message Authentication Code, "MAC-DATA", that acts as a shared secret (see Hickman, Kipp, "The SSL protocol" §1.2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to distribute the "state sharing information messages" using the SSL protocol, in order to provide a secure method of distributing messages within the server cluster.

As per claim 16 the combination of Bruck, Sato, and McLauhglin teaches the invention substantially as claimed as noted above. Furthermore, McLaughlin teaches applying a configuration lock that is intended to prevent other applications from performing network management operations on the devices within the cluster (see abstract and ¶0137-0144) during a predetermined time (see ¶0199 wherein the lock client process 18 sets a timer for the length of the "retain interval", wherein the length of the retain interval is read as a predetermined time); and releasing the configuration lock after the network management operations are performed (see ¶0199 "lock release").

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The same motivation that was utilized for combining Bruck and McLauhglin in claim 1 applies equally well to claim 16.

Claims 9, 11-15, 17-20, 22-25 and 27-34 are rejected under the same rationale as claims 1-8, 16 and 34 since they recite substantially identical subject matter. Any differences between the claims do not result in patentably distinct claims and all of the limitations are taught by the above cited art.

Response to Arguments

Applicant's arguments with respect to claims 1-9, 11-20, 22-25, 27-34 have been considered but are moot in view of the new ground(s) of rejection.

However, with respect to applicant's argument that "enabling and disabling component monitoring" is not a management operation, the examiner respectfully disagrees.

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It is a well settled principle that the patent examiner must give the applicant's claim its broadest reasonable interpretation. (See MPEP § 2106 "While it is appropriate to use the specification to determine what applicant intends a term to mean, a positive limitation from the specification cannot be read into a claim that does not itself impose that limitation. A broad interpretation of a claim by USPTO personnel will reduce the possibility that the claim, when issued, will be interpreted more broadly than is justified or intended. An applicant can always amend a claim during prosecution to better reflect the intended scope of the claim").

Thus the examiner is broadly reading a management operation as any type of operation or step that is related to the management of a cluster of machines. Thus, it appears reasonable that, one of ordinary skill in the art would read the step of enabling and disabling a monitoring component, as a task that is closely related to the management of a cluster of machines, since, it allows a user at a "remote management console", see Fig. 12 and 13, with the ability to define which machines the user would like to monitor (i.e. manage). Furthermore, the step of enabling and disabling a monitoring component is inherently determined [based on a user's input] and carried out by a processor within the Remote Management Console.

Nevertheless, also note that the remote management console may perform additional operations, such as "setting operating parameters of the distribution server cluster", see col. 19, lines 49-60 and col. 21, lines 19-27, which could also be interpreted as "management operations".

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Furthermore, the examiner also respectfully disagrees with the applicant's arguments, directed to the examiner's reading of McLaughlin et al. (US 2002/0165929) ("McLaughlin") for teaching a "configuration lock".

As an initial matter "A configuration lock that is intended to prevent other applications from performing NM operations on the locked devices within the cluster while the user is logged-in" appears to be synonymous with the "locking mechanism" as taught by McLaughlin, see ¶0137 "the lock mechanism can be described at a high-level as a coordination protocol in which nodes 12 agree to issue a "take ownership" command to a switch 14 only after obtaining control of a lock stored in the switch 14. Under this protocol the switch lock is controlled by at most one node 12 at any given time" also see McLaughlin's abstract wherein the locking mechanism is for the purposes of performing network maintenance on the network resource (i.e. switch).

Furthermore, in ¶0014, McLaughlin also expressly states that the invention was not intended to be limited to performing maintenance on a single switch but also to perform maintenance on other network resources. Thus McLaughlin appears to suggest that other network resources, such as the server cluster machines in Bruck's invention, could have also been outfitted with a locking mechanism without departing from the scope of his invention. Finally, the obvious motivation for combining Bruck and McLaughlin would have been to prevent other users or applications from interfering with network management operations on the server cluster machines (see McLaughlin, ¶0136-¶0144).

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRENDAN Y. HIGA whose telephone number is (571)272-5823. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571)272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brendan Y Higa/ Examiner, Art Unit 2453

/ARIO ETIENNE/ Supervisory Patent Examiner, Art Unit 2457